

safe and reliable



Type KVII/HFS - The Innovative Hybrid Valve Quick-Closing & Control Valve for Gaseous Media Electro-Pneumatic Operated

Edition: 06.20

Subject to change without notice

APPLICATION AREA

- > Gas firing systems on steam boilers
acc. to DIN EN12952/12953
- > Industrial thermoprocessing equipment acc. to
DIN EN 746
- > Pipe systems for fluids and gaseous media
for all industrial sectors

ADVANTAGE

- > Closing time < 1 sec
- > High safety level through zero leakage
- > Heavy duty design for high operating cycles
- > High performance valve design for long service
life
- > Precise control function



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Type KVII/HFS

Quick-Closing & Control Valve for Gaseous Media Electro-Pneumatic Operated



DN 2½"-12" ANSI 150 lbs

APPLICATION

- > Combined control and quick closing valve
- > In pipelines in front of burner
acc. to DIN EN12952/12953
- > In Industrial thermoprocessing equipment
acc. to DIN EN 746

TECHNICAL DATA

- > Single-seated straight-through globe valve
acc. to ANSI standard
- > Stem sealing acc. to TA-Luft,
stainless steel bellow with additional lip seal and
connection for tightness test
- > Exchangeable plug gasket
- > Maintenance-free guide bushing
- > Control element pressure-balanced to allow higher
pressure
- > Piston actuator with integrated closing spring
- > Combined electro-pneumatic Regulation- and Quick-
closing control system

CERTIFICATES

EC-Type examination (Modul B)

acc. to directive 2014/68/EU

EC- Type examination certificate with product-identnumber

acc. to gas appliance regulation EU/2016/426

based on:

DIN EN 13611 / DIN EN 161 / DIN EN 16678

- Certificate:**
- > TA-Luft
DIN EN ISO 15848-1
VDI 2440
 - > SIL2 / EN 61508
 - > Fire-safe
DIN EN ISO 10497 / API 607

OPERATING DATA

- Media:**
- > Gaseous fuels
acc. to PED 2014/68/EU
 - > Fuels acc. to G260;
gas group 1., 2. and 3
 - > Other gaseous media
- Operating pressure:** Max. 16 bar g
- Operating temperature:** -29 to 180 °C
- Ambient temperature:** -29 to 80 °C
- Control medium:** Compressed air at 4-8 bar g
- Air quality:** acc. to DIN ISO 8573-1
- Control voltage:** 230 V, 50 Hz, 24 V DC
- Power:** 10.6 VA / 6.8 W
- IP Protection Class:** IP 65
- Mounting position:** no restriction
- Mounting position:** Indoor/Outdoor

OPTION

- > Valve plug also available in parabolic, perforated as
well as in slit cone design

REMARKS

Acc. to DIN EN12952/12953 it is advised to install strainer
in front of shut off valve. (Kühme SF / SFY)

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DIMENSIONS

DN	bar g		mm							kg
	Max. Operating pressure*	Actuator	L	D	H	H ₁	H ₂	H ₃	H ₄	
2½	16,0	200	216	250	600	180	120	337	140	65
3	16,0	200	241	250	600	180	120	337	140	75
4	16,0	200	292	250	605	180	120	340	140	90
6	16,0	200	406	250	775	250	180	452	140	160
8	16,0	250	495	315	900	250	180	520	200	240
10	10,0	250	622	315	970	250	180	585	200	370
12	10,0	250	698	315	1150	280	180	675	200	475

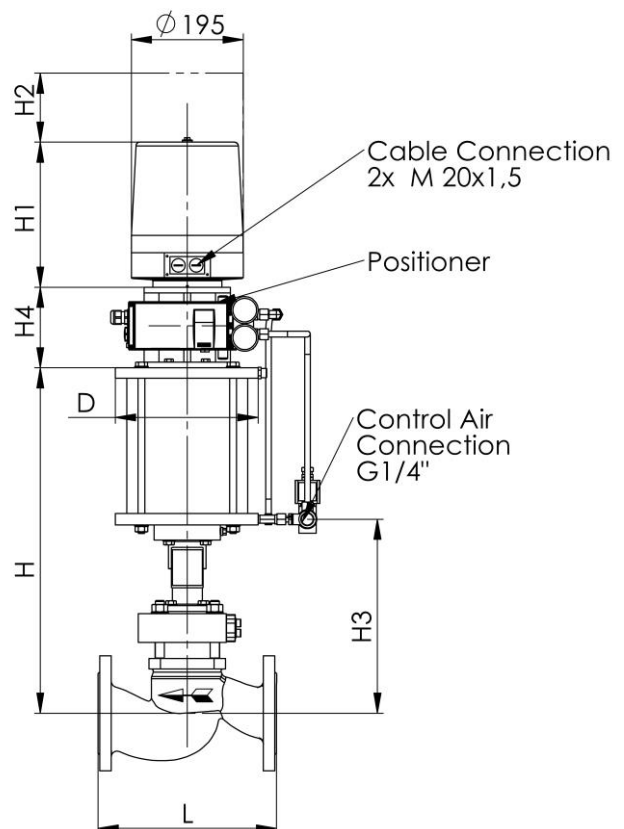
* Max. Functional pressure with compressed air 4 bar;
Flange dimension acc. to ASME B16.5

PARAMETER

Nominal diameter DN	2½	3	4	6	8	10	12
Max. Service pressure (PS) in bar g	16	16	16	16	16	10	10
Rating ANSI Class	150	150	150	150	150	150	150
K _{vs} - Wert m³/h [max.]	72	108	170	376	655	1030	1460
Closing time	< 1 Second						

ACCESSORIES*

QTY	Accessories
1	Pneumatic Change over Valve
1	3/2-way solenoid valve, directly actuated
1	Electro-pneumatically Positioner
2	Limit switch as mechanical cam switch or proximity switch
1	Protection cover, transparent, for limit switch and optical position indication



MATERIALS*

Body:	A 216 WCB
Valve seat:	cladded with 1.4551
Plug gasket:	Elastomer
Bellow:	1.4541
Stem:	1.4021
Actuator:	Steel/Aluminium
Sealing parts:	Elastomer

* Other materials and accessories are available on request.